#### YGDHGLA DA WING to

# BMW of North America, Inc.

May 12, 2000

OFFECTS III

008-142 (01)

Mr. Kenneth N. Weinstein
Associate Administrator for Safety Assurance
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
US Department of Transportation
400 7th Street, SW
Washington, DC 20590

RE: Recall Campaign - Engine Idler Pulley
1999-2000 Model Year Land Rover Discovery Series II with ACE system.

Dear Mr. Weinstein:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act of 1966 and 49 CFR Part 573.

Pursuant to Section 573.5 (c) of the above, we submit the following information:

# 1. Manufacturer Corporate Name:

Rover Group Ltd. Solihull, United Kingdom

# Affiliated U.S. Importing Company and Agent:

Land Rover North America, Inc. 4371 Parliament Place PO Box 1503 Lanham, MD 20706

#### 2. Identification of Affected Vehicles:

Based on analysis of the failure mode of the left hand engine idler pulley, the following vehicle population was identified.

Subject Component: V8 Idler Pulley Part # PQR101070

Subject Vehicles: 1999 and 2000 Model Year, Discovery Series II fitted with the Active Cornering Enhancement (ACE) system.

Address 1 BMW Plaza Montvalo, NJ 07845-1855

> Telephone (201) 573-2088

Factimile (201) 782-0784 (201) 930-8766



VIN: SALTY1240XA200255 to SALTY1247YA277044 VIN: SALTY1241XA900798 to SALTY1249XA907211

Produced from May 1998 to April 2000.

## Total Number of Vehicles Potentially Affected:

7,120 Discovery Series II vehicles are affected by this recall.

## 4. Percentage of Vehicles Estimated to Actually Contain the Defect:

All vehicles within the VIN range in 2. above, that are equipped with ACE, may potentially exhibit the defect during service.

#### 5. Description of the Defect:

The loading conditions present on the left side engine idler pulley of an affected ACE-equipped Discovery Series II vehicle can exceed the maximum calculated figure of the original design specification. Under maximum load conditions, the material of the pulley can fracture and ultimately fail.

Failure of the pulley material may cause the pulley to throw off the serpentine belt, which can result in a loss of engine auxiliary functions (power steering, water pump, alternator, air conditioning and ACE). While the vehicle's steering capability will remain intact, steering effort will be increased if the serpentine belt drive is lost. The loss of steering assist may increase the risk of a vehicle crash. Possible engine overheating and subsequent engine damage may result if vehicle operation is continued.

# Chronology of Principal Events:

The affected idler pulley (PQR101070) was introduced on Land Rover Discovery Series II with the introduction of 1999 Model Year vehicles in May 1998.

The quality of the initial supply of parts exhibited excessive supplier process variability. A small number of pulleys exhibited a micro crack in the moulding adjacent to the bearing.

A component of improved quality (PQR101070) from a more capable supplier was introduced into production in February 1999 (VIN – XA213336). Vehicles sold or in retailer inventory were repaired under Service Action H369 issued on September 9, 1999.

Reports of failures of the new pulleys manufactured by the new supplier were first received during September 1999. A review of the pulley loads was conducted. As the result of this load review, an idler pulley machined from solid steel was designed. The machined solid steel idler pulley was introduced into production in April 2000.

The manufacturer of the affected pulley is:

MarkIV Automotive
Dayco Europe Limited
29s Crown Street
Brentwood, Essex, CM14 4BA
United Kingdom
Phone +44 (0) 1277 238600

Land Rover has received no reports, nor is Land Rover otherwise aware of any accidents or injuries resulting from this defect.

## 7. Case of Non-Compliance

Not Applicable.

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#### 8. Description of Corrective Repair Action

The plastic idler pulley (PQR101070) will be removed and replaced with the newly designed steel pulley (PQR101150K). Customer notification is expected to begin by the end of May 2000.

## 9. Copies of Dealer Communications

Copies of the dealer notification documents (service bulletin and technical information bulletin (TIB)) will be submitted to NHTSA when available.

## Copy of Owner Communication

A draft copy of the customer notification letter is attached.

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Page# 4

# 11. Manufacturer's Campaign Number

Land Rover's campaign number is D216.

Should there be any questions regarding this report, please contact Mr. William Scully of BMW of North America, Inc. at 201-573-2069.

Sincerely,

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Karl-Heinz Ziwice

WSaully

General Manager

**Environmental Engineering** 

Attachment

PSOMp01a

# DRAFT

00V-142 @

May 2000

# Re: Safety Recall # 00V-xxx, Engine Idler Pulley

Dear Land Rover Discovery Owner:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

Rover Group, manufacturer of Land Rover vehicles, has determined that a defect, which relates to motor vehicle safety, exists in some model year 1999 and 2000 Land Rover Discovery II vehicles equipped with Active Comering Enhancement (ACE).

#### **DESCRIPTION OF DEFECT**

The loading conditions present on your vehicle's left side engine idler pulley can exceed the maximum calculated figure of the original design specification. Under maximum load conditions, the material of the pulley can fracture and ultimately fail.

Failure of the pulley material may cause the pulley to throw off the serpentine belt, which can result in a loss of engine succliary functions (power steering, water pump, alternator, air conditioning and ACE). While the vehicle's steering capability will remain intact, steering effort will be increased if the serpentine belt drive is lost. The loss of steering assist may increase the risk of a vehicle crash. Possible engine overheating and subsequent engine damage may result if vehicle operation is continued.

#### **PRECAUTIONS**

Should the serpentine drive belt fail, the battery charge and ACE warning lamps will illuminate immediately.

In the event of such a failure, the engine should be **switched off as soon as safety possible** and the vehicle should **not** be driven. It should be towed to an authorized Land Rover retailer where the specified repairs can be performed.

if you are not the sole driver of this vehicle, please advise all other drivers of these necessary precautions.

#### DESCRIPTION OF REPAIR

This Recall action consists of your retailer installing an improved idler pulley. The parts recessary to complete this action are currently available at your Land Rover retailer. The time required to perform this Recall should be approximately one hour. Additional time may be required depending upon your retailer's scheduling and processing. The personnel at your retailer are fully prepared to serve you.

Please contact your Land Rover retailer immediately to have the necessary repair performed as soon as possible. Your retailer is prepared to make every effort to perform the modification at a convenient time that fits your schedule. If you experience any difficulty making these arrangements, please contact one of our Owner Care Representatives at 1-800-637-6837.

#### PLEASE NOTE:

 If the vehicle to which this notice applies has been lessed and you are the lessor, you MUST send a copy of this notice to the lesses.

00V-142 @

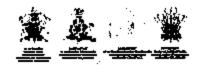
 If you no longer own the vehicle covered by this Recall, please complete the enclosed postagepaid Owner information Card. If the vehicle has been sold, please indicate the new owner and address if known. If the vehicle has been destroyed, please indicate. We appreciate the return of the card at your earliest convenience.

If your retailer does not repair your vehicle without charge or within a reasonable period of time, you may notify the Administrator, National Highway Traffic Safety Administration, Washington, DC, 20590, or call the toil-free Auto Safety Hotline at 1-800-424-9393 (Washington, DC area residents may call (202) 366-0123). You may also call our Owner Relations Department [1-800-637-6837] or write to:

Land Rover North America, Inc. PO Box 1503 4371 Pertiement Place Lanhern, MD 20706 Attn.: Owner Relations Department

We apologize for any inconvenience caused by this Recall, but trust that you understand the need to have this condition rectified.

**Land Rover North America** 



# Land Rover North America, Inc.



13 October, 2000

Mr. Kenneth N. Weinstein
Associate Administrator for Safety Assurance
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
US Department of Transportation
400 7th Street, SW
Washington, DC 20590

RE: Recell Campaign – Engine Idler Pulley
1999-2000 Model Year Land Rover Discovery Series II and Range Rover

Dear Mr. Weinstein:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act of 1966 and 49 CFR Part 573 and as a supplement to the May 12, 2000 submission on the same subject.

Pursuant to Section 573.5 (c) of the above, we submit the following information:

# 1. Menufacturer Corporate Name:

Land Rover Group Ltd. Solihuil, United Kingdom

# Affiliated U.S. Importing Company and Agent:

Land Rover North America, Inc. 4371 Parliament Place PO Box 1503 Lanham, MD 20706

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Land Rover North America, Inc. 4371 Perllement Place PO 8ox 1503 Lenham, Maryland 20705 United States of America Telephone 301 731-8040 Fex 301 731-9054

#### 2. Identification of Affected Vehicles:

Based on analysis of the failure mode of the left hand engine idler pulley, the following additional vehicle population was identified.

Subject Component: V8 Idler Pulley Part # PQR101070

Subject Vehicles: 1999 and 2000 Model Year: Discovery Series II and Range Rover

Discovery Series II

VIN: SALTY1247XA200253 to SALTY1244YA277051
VIN: SALTY1245XA900000 to SALTY1249XA907211

Produced between May 1998 and April 2000.

Range Rover

VIN: SALPV144XXA400939 to SALPV1540YA443345
Produced between July 1998 and May 2000.

## Total Number of Vehicles Potentially Affected:

A total of 44,031 vehicles are affected by this recall. (32,232 Discovery Series II and 11,799 Range Rover)

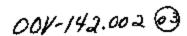
# 4. Percentage of Vehicles Estimated to Actually Contain the Defect:

All vehicles within the VIN range in 2, above may potentially exhibit the defect during service.

#### SALTY1247

# Description of the Defect:

There are no changes in the description of the defect since the May 12, 2000 submission.



# 6. Chronology of Principal Events:

The original investigation concluded that only vehicles equipped with Active Cornering Enhancement (ACE) were at risk from this defect, due to the higher loads introduced by the ACE system. Consequently, a recall campaign was launched in May 2000 (00V-142) in order to address vehicles equipped with ACE.

However, continuous monitoring of field data has highlighted idler pulley failures on vehicles not fitted with ACE, albeit at a lower failure rate than that of ACE equipped vehicles. Further detailed investigation has concluded that there is significant "vehicle to vehicle" variation in auxiliary belt load and that non-ACE vehicles are also at risk of failure.

Land Rover has therefore concluded that the recall campaign should be extended to encompass all vehicles fitted with the subject component.

Land Rover has received no reports, nor is Land Rover otherwise aware of any accidents or injuries resulting from this defect.

# 7. Case of Non-Compliance

Not Applicable.

# 8. Description of Corrective Repair Action

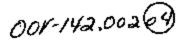
The plastic idler pulley (PQR101070) will be removed and replaced with the newly designed steel pulley (PQR101150K). Customer notification is expected to begin by 5 December 2000.

## 9. Copies of Dealer Communications

Copies of the dealer notification documents (service bulletin and technical information bulletin (TIB)) will be submitted to NHTSA when available.

## 10. Copy of Owner Communication

Draft copies of the customer notification letter will be sent for NHTSA review in the near future.



# 11. Menufacturer's Campaign Number

Land Rover's campaign number is D216.

A copy of the May 12, 2000 submission is attached for your reference. Should there be any questions regarding this report, please contact me at 301-731-6583.

Sinceraly,

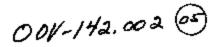
Dennis T. Johnston -

Manager, Regulatory Compliance

of BMW AG.

# BMW of North America, Inc.

May 12, 2000



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Associate Administrator for Safety Assurance
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
US Department of Transportation
400 7th Street, SW
Washington, DC 20590

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Subject Vehicles: 1999 and 2000 Model Year, Discovery Series II fitted with the Active Cornering Enhancement (ACE) system.

Address 1 SafAi Pleza Montvela, NJ 07545-1856

> Yelephone (201) 578-2069

Feceimile (201) 782-0784 (201) 930-8766



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The manufacturer of the affected pulley is:

MarkIV Automotive
Dayco Europe Limited
29a Crown Street
Brentwood, Essex, CM14 4BA
United Kingdom
Phone +44 (0) 1277 236600

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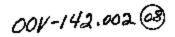
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Sincerely,

Karl-Heinz Ziwica

WSully

General Manager

Environmental Engineering

Attachment

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